



TUBE SYSTEMS FOR SHIPBUILDING & OFFSHORE
SAFE. RESILIENT. RELIABLE.

transfluid[®]
The solution for tubes. **t**

REFERENCES



WE HAVE THE RIGHT SOLUTION

With transfluid, you bring technological excellence to your production. Our solutions, services, and systems are designed to meet exactly what you need to manufacture at a world-class level. For your requirements and even more complex challenges. Whether producing a single part or large-scale series with consistently high quality. With customised high-tech developments or our powerful standard machines, transfluid has the solution to advance your ideas.



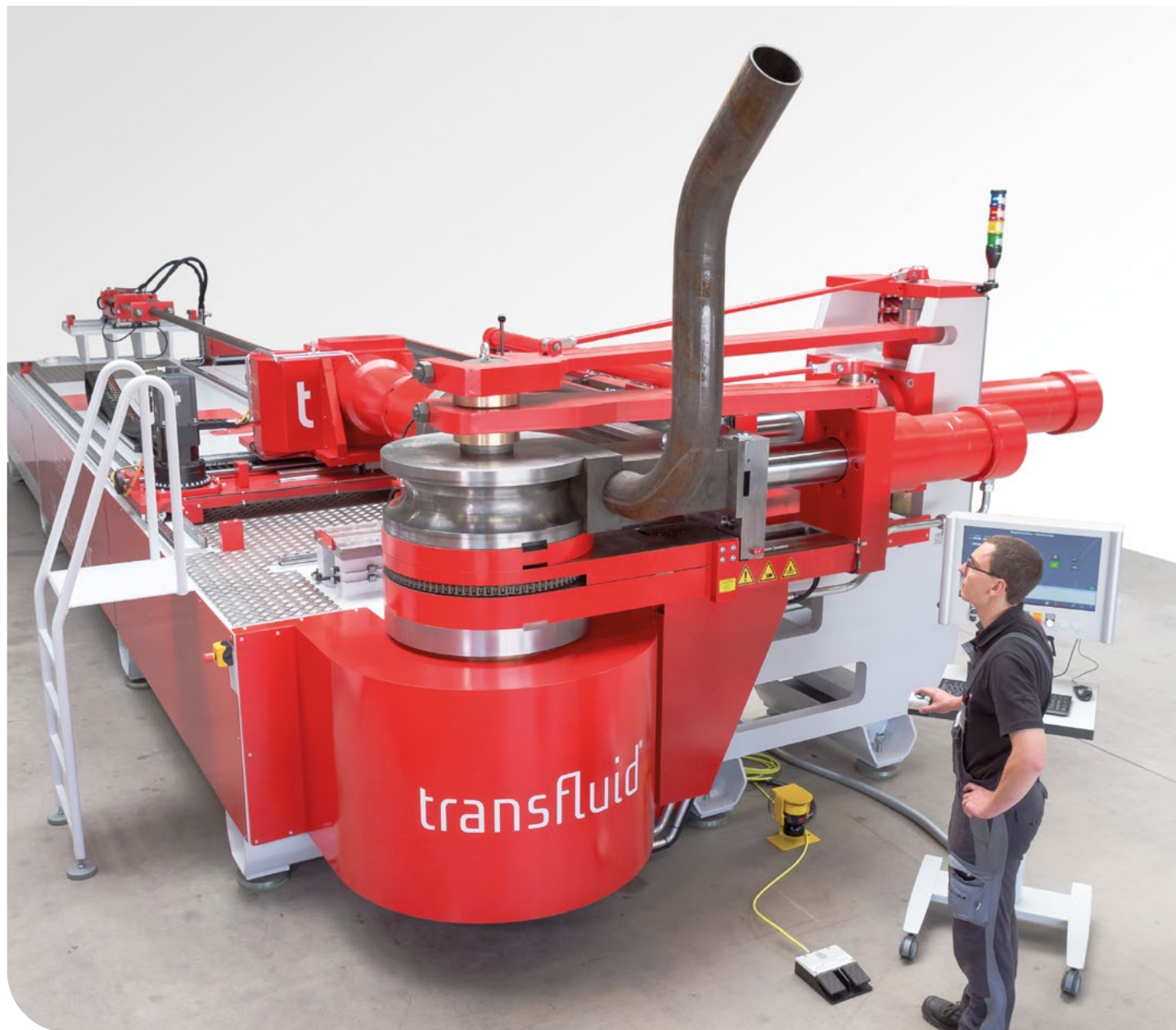
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TUBE GALLERY

UNCOMPROMISING STRENGTH
MAXIMUM DURABILITY





transfluid – t bend

POWERLINE

MAXIMUM STABILITY
FULL CONTROL



SERVO-HYDRAULIC CNC MANDREL BENDING MACHINES

t bend **POWERLINE** for performance and stability.

The t bend **POWERLINE** CNC tube bending machines take bending performance to a completely new level – developed to meet the highest demands in industrial tube processing.

With efficient servo-hydraulic drive technology and an extremely robust design, they deliver maximum bending performance – reliably, precisely and economically.

Your benefits at a glance:

- » Powerful and precise – solid construction and outstanding rigidity
- » Simple and fast – short set-up times and fast operator training
- » Durable – robust design, durable tools, optimized maintenance
- » Economical – excellent price-performance ratio

Whether handling large-diameter tubes or demanding bend radii, the **t bend POWERLINE** masters tube diameters from 6 to 330 mm with outstanding stability. Thanks to digital controls, fast setup procedures, and optional software integration, you can move directly into automated production – efficient, safe and forward-looking.

The nine available machine sizes give you maximum flexibility for any production strategy. The simple operation means quick training, creates autonomy and ensures smooth processes over the long term.

WHAT MAKES IT SPECIAL?

Robust construction and optimized equipment

Solid welded machine structure, short setup times, bayonet locks, multiple bending levels (multi-stage bending), bending mandrels of various materials, form clamping jaws, wiper dies, etc. ensure flexibility and versatility.

Efficiency and cost benefits

Short set-up times thanks to swivelling bridges, tool racks and optimised clamping technology. The set-up processes are optimized for speed and simplicity, from the smallest to the largest machine.

t bend POWERLINE – uncompromisingly strong, unbeatably efficient.

t bend POWERLINE MACHINE SIZES

Model	Tube- ϕ	Max. Radius
POWERLINE 42	6 – 42 mm	126 mm
POWERLINE 60	6 – 60 mm	180 mm
POWERLINE 90	6 – 88,9 mm	270 mm
POWERLINE 120	20 – 120 mm	360 mm
POWERLINE 140	40 – 140 mm	420 mm
POWERLINE 170	40 – 170 mm	510 mm
POWERLINE 220	40 – 220 mm	700 mm
POWERLINE 273	60 – 273 mm	820 mm
POWERLINE 330	80 – 330 mm	975 mm



watch the
movie

COMPACTLINE

PRECISE PERFORMANCE
IN A COMPACT SIZE



COMPACT MANDREL BENDING MACHINES

t work **COMPACTLINE** – Precise performance in a compact size.

The t work **COMPACTLINE** is the ideal solution for companies requiring space-saving, high-performance tube bending machines. It is mobile and ensures precise bending results for single parts and small batch production.

Your benefits at a glance:

- » **Easy and mobile** – for use to assemble directly on-site, with minimal space requirements
- » **Compact and economical** – perfect for single pieces and small batches
- » **Precise** – hydraulic power with digital accuracy
- » **Fast and dynamic** – short set-up times for efficient processes

The **t work COMPACTLINE** stands for mandrel bending technology that works right away – quick to set up, easy to use and ready for any challenge.

WHAT MAKES IT SPECIAL?

Precise bending

Tube diameters from 6 to 101 mm, narrow radii from 1.5×D possible

Easy operation

PLC control with touch panel, storage of bending angles

Robust construction

Durable and reliable

A wide range of optional equipment

Integrated saw, deburring unit, cutting ring pre-assembly, flaring tools and much more

The **t work COMPACTLINE** combines compactness, flexibility and bending quality – especially valuable for companies that require reliable bending processes in production with minimal space requirements.

t work COMPACTLINE – Precise performance in a compact size.

t work COMPACTLINE MACHINE SIZES

Model	Tube-ø	Max. Radius
COMPACTLINE 42	6 - 42 mm	105 mm
COMPACTLINE 76	6 - 76,1 mm	150 mm
COMPACTLINE 101	6 - 101,6 mm	250 mm

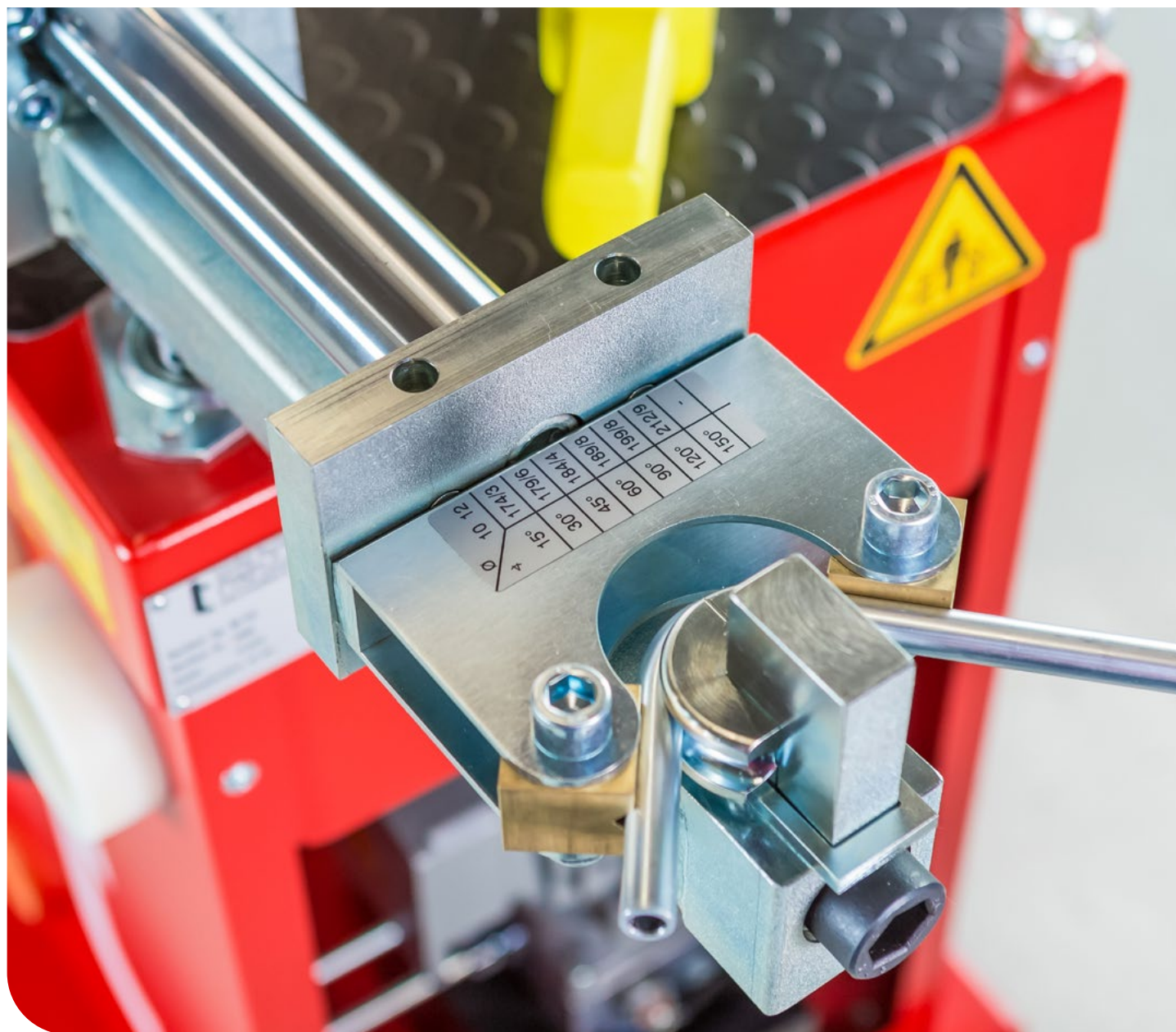


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transfluid - t work

MOBILELINE

PERFORMANCE
ANYTIME AND ANYWHERE



MOBILE BENDING MACHINE

t work **MOBILELINE** – Performance, anytime and anywhere.

The t work **MOBILELINE** brings bending power directly to the job site – mobile, compact and robust. Whether on the construction site, on the factory floor or for servicing calls: This machine impresses with its robust design, easy handling and reliable performance – wherever it matters.

WHAT MAKES IT SPECIAL?

Flexible equipment

Options such as deburring unit, cutting ring pre-assembly, flaring tools or saw attachment.

The t work **MOBILELINE** is the first choice for hydraulics engineers who work directly on site. It combines precise performance, agility and ease of use – ideal for projects where performance is required directly on site.

t work **MOBILELINE** – mobile, compact, robust.

t work **MOBILELINE** MACHINE SIZES

Model	Tube- ϕ	Max. Radius
MOBILELINE 42	6 – 42 mm	126 mm
MOBILELINE 60	6 – 60 mm	180 mm
MOBILELINE 90	6 – 90 mm	270 mm
MOBILELINE 115	6 – 115 mm	345 mm

Your benefits at a glance:

- » **Mobile** – immediately ready for use without set-up time, flexible at any location
- » **Expandable** – a wide range of optional equipment for hydraulic tubes
- » **User-friendly** – quick setup, easy to use
- » **Robust and durable** – for reliable performance even in harsh conditions



watch the
movie

transfluid - t form

FLARELINE

QUICKLY TO
THE PERFECT SHAPE



ROLLFORMING MACHINES

t form **FLARELINE** – Smooth. Tight. High quality.

The t form **FLARELINE** uses a rotating forming principle that produces sealing surfaces of the highest surface quality – without any additional post-processing.

Even with different materials or geometries, the quality remains constant. This material-friendly forming process is particularly advantageous for tubing systems with dynamic loads and offers greater safety.

The t form **FLARELINE** delivers connection quality at the highest level.

WHAT MAKES IT SPECIAL?

High flexibility

Suitable for prototypes and series production.

Cost advantages

Less post-processing, fewer sources of error, higher profitability.

Automatable

Integration into production lines for constant process quality.

t form **FLARELINE** – Quickly in perfect shape.

t form **FLARELINE** MACHINE SIZES

Model	Tube-ø	Wall thickness max.	Cycle time
FLARELINE 28	6 – 28 mm	2,5 mm	4 – 10 Sec.
FLARELINE 42	6 – 42 mm	4,0 mm	4 – 15 Sec.
FLARELINE 115	30 – 115 mm	4,0 mm	10 – 45 Sec.
FLARELINE 168	40 – 168 mm	4,0 mm	15 – 55 Sec.
FLARELINE 220	40 – 220 mm	6,0 mm	15 – 60 Sec.

Your benefits at a glance:

- » **Tight and durable** – absolutely tight, stable and durable connections
- » **Perfect surfaces** – mirror-like sealing surfaces without reworking
- » **Tool technology** – various flare angles (37° to 90°)
- » **Compact machine design** – for reverse geometries



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movie

transfluid - t form

EXPANDER

PRECISION FORMING
DEFINED TUBE ENDS



TUBE FORMING MACHINES

t form **EXPANDER** – Perfect form in every dimension.

The t form **EXPANDER** enables the precise expansion and reduction of tube ends. The electro-hydraulic drive concept ensures powerful, controlled forming processes tailored to a wide range of tube processing requirements.

The split tools used are opened and closed via a cone mechanism. Both the forming length and the shape can be flexibly adapted to the respective tooling configuration.

Whether processing steel or stainless steel tubes, the t form **EXPANDER** guarantees reproducible results and maximum process reliability, even for demanding dimensions.

WHAT MAKES IT SPECIAL?

High flexibility

Flexible implementation of a wide range of geometries through variable tooling.

High-performance drive

Electrohydraulic power for smooth and controlled forming processes.

Wide range of applications

Suitable for carbon steel and stainless steel tubes with diameters from Ø 42.4 to 273 mm.

t form **EXPANDER** – Precision forming. Defined tube ends.

Your benefits at a glance:

- » High material thicknesses – suitable for wall thicknesses up to 8.8 mm
- » Large forming lengths – expansion up to max. 100 mm
- » Process reliability – consistent quality thanks to a controlled forming process
- » Robust system – designed for demanding industrial applications





NEXT-GENERATION SOFTWARE

Fewer process steps to the finished component: with the **t project BENDING SOFTWARE**, you have full control of all bending process variables even before production begins. Material-specific and collision-free, even complex bending geometries can be planned and implemented reliably.

Test virtually, save time in reality: the simulation determines exact bending times and cutting lengths and checks tube geometries for feasibility in advance. Tube data and results are documented precisely and are 100% reproducible.

All common interfaces are available for import, export, and seamless networking with MES or ERP systems.

Your benefits at a glance:

- » **Digital and smart** – complete mapping of the bending process from design to production
- » **Clearly calculated** – precise cycle times already determined before production start
- » **Efficiently programmed** – batch import, Easy-Teach, and intuitive operation for fast results
- » **Seamlessly integrated** – open interfaces to CAD, ERP, and MES systems for Industry 4.0
- » **Future-proof** – modularly expandable, upgrade-ready, and suitable for existing machines

Future-ready, powerful, smart: Our **t project BENDINGSOFTWARE** for tube processing combines state-of-the-art technology with maximum user-friendliness.

It adapts seamlessly to your individual requirements and helps you design production processes that are safer, more precise, and more cost-efficient.

An intuitive user interface and a modern design ensure easy operation and a pleasant user experience. Compatibility with current operating systems guarantees maximum system performance.

Regular updates and reliable support ensure that **t project BENDINGSOFTWARE** is continuously enhanced and always up to date.

With innovative features and increased performance, **t project BENDINGSOFTWARE** sets new standards for demanding, precise, and reliable bending processes.

WHAT MAKES IT SPECIAL?

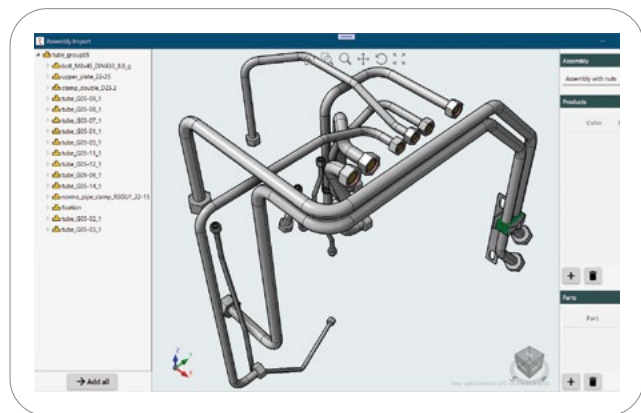
Tube Manager

The control center for smart tube processing. Developed for the highest demands in tube processing, the software combines modern design with intelligent functionality.

Batch import & automatic simulation

Visualization of assemblies, including all components, for precise planning and control already in the design phase.

Automatic calculation, simulation, and optimization of the entire assembly—reliable, fast, and fully reproducible.



Product database

Integrated product databases for managing complete tube assemblies, including visualization of drillings, forming, and nuts.

Digital Twin

Complete offline programming of all machine functions and highly complex components with integrated testing and error analysis, including special equipment, process optimization, and workflow simulation.



Playback

1:1 monitoring of the machine status, live or delayed.

Predictive maintenance

Monitoring the condition and wear of individual machine groups to optimize maintenance intervals.

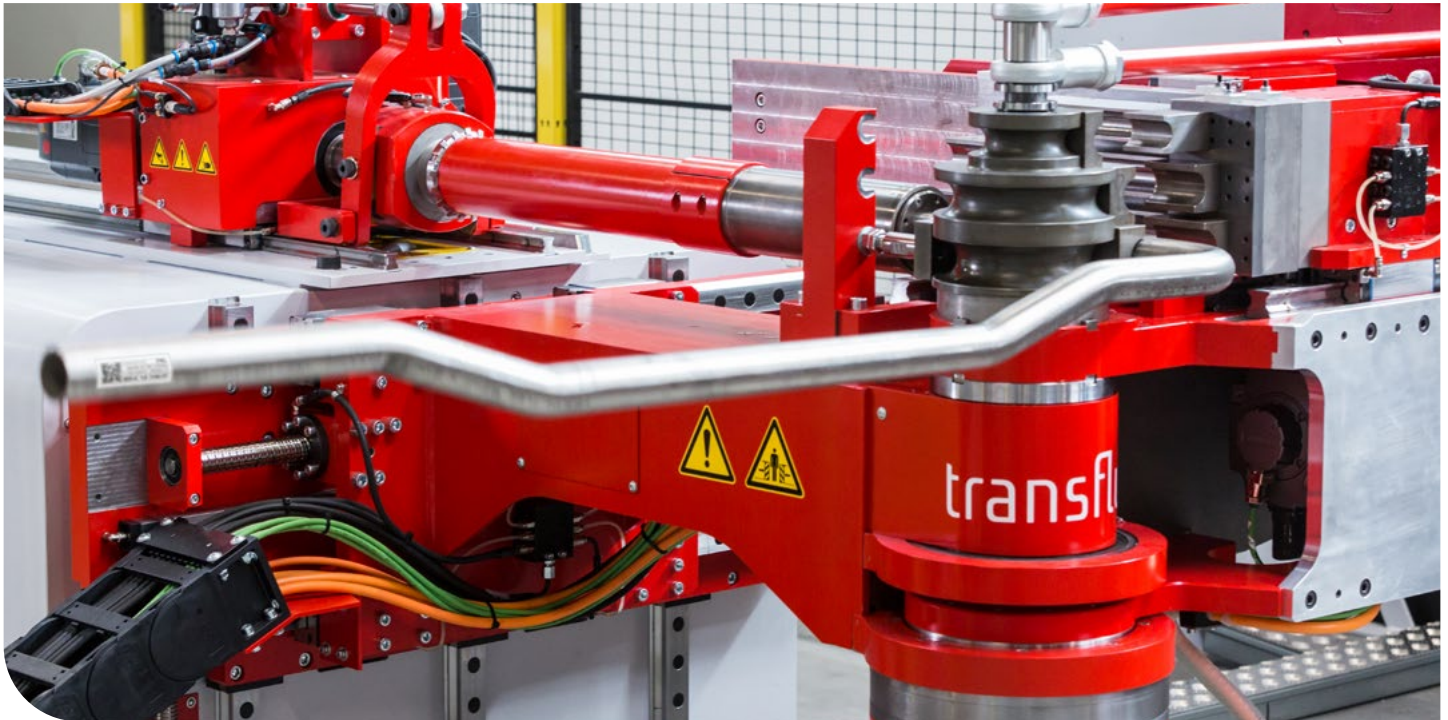
Automatic real-time cycle time analysis

Fully automatic, precise determination of cycle times based on actual axis speeds directly from the machine PLC.

t project BENDINGSOFTWARE – Intelligent Software for smarter production.

PRODUCTION SYSTEM

DIGITALLY
PROGRAMMED



SOFTWARE & PROCESS INTEGRATION

With the QR code-based solution, bending programs can be accessed directly during the production process. This ensures that all relevant data is available quickly, securely, and precisely when needed.

Even during ongoing production, the bending geometry can be flexibly adjusted for tubes of the same diameter. This enables efficient manufacturing of small batches as well as one-off components without interrupting the production flow.

The integrated bending report provides additional transparency and supports structured downstream processing within production. The solution seamlessly combines digital workflows with efficient manufacturing processes.

Your benefits at a glance:

- » **Dynamic adjustment** – geometry modifications can be made during the bending process
- » **Bending report** – includes cut lengths and can be used as a job ticket
- » **Comprehensive component data** – tube-end details such as flares, cutting rings, and flanges can be incorporated
- » **Process reliability** – provides a clear and consistent data basis for cutting and bending operations

QR CODE SOLUTION – CONNECTED AND EFFICIENT

t project **PRODUCTION**SYSTEM – Fully digital, process-safe.

From tube cutting to the bending operation, all production steps are digitally connected in a seamless workflow.

Cutting and marking

After the tube has been cut to length, the QR code on the bending report is scanned. An automatically generated label uniquely identifies the component.

Bending

At the bending machine, the label is used to identify the job. Once scanned, the control system automatically loads the corresponding bending sequence. The tube can then be positioned and the bending process started without any manual program selection.

The result: a fully integrated digital process chain with clear component identification, reduced manual input, and a high level of process reliability and operational efficiency.

WHAT MAKES IT SPECIAL?

Direct access

Bending programs are instantly available via QR code, eliminating downtime.

Maximum flexibility

Bending geometries can be adjusted during production.

Efficient small-batch production

Single parts and small production runs can be manufactured without interrupting the workflow.

Transparent documentation

Integrated bending reports ensure complete traceability and reliable production documentation.

t project **PRODUCTION**SYSTEM – Scan. Connect. Produce.

CUTTING AND MARKING



1. CUTTING TO LENGTH

Cut the tube

Cut the tube to the specified length according to the bending report.



2. SCAN THE JOB

Scan the QR Code

Scan the QR code on the bending report and transfer the job data automatically.



3. IDENTIFICATION

Apply the label

Print the label automatically and position it clearly on the tube for unique identification.

BENDING



4. IDENTIFY THE COMPONENT

Scan the label

Scan the labeled tube at the bending machine.



5. LOAD THE BENDING PROGRAM

Automatically open the bending sequence

The machine control system automatically loads the bending sequence assigned to the job.



6. BENDING

Start the bending process

Position the tube and proceed with the prepared bending operation.

MEASUREMENT SYSTEM

DIGITALLY
PROGRAMMED



1. Intuitive measuring systems

Software – Connected. Compatible. Practical.

The t project **BENDING** SOFTWARE offers versatile interfaces to measuring systems as well as CAD and Office applications.

This enables seamless integration of measurement data and design information into existing workflows.

Common file formats such as IGES, STEP, JT, and PCF are supported, ensuring smooth data exchange and maximum flexibility for further processing.

Your benefits at a glance:

- » **Seamless data integration** – measurement data, CAD models, and manufacturing information combined in a continuous digital workflow
- » **Virtual collision simulation** – verify bend feasibility and detect potential collisions before production
- » **Direct machine export** – transfer bending sequences quickly, accurately, and without errors
- » **High process reliability** – precise, documented, and fully reproducible manufacturing processes

2. Direct integration of measurement data

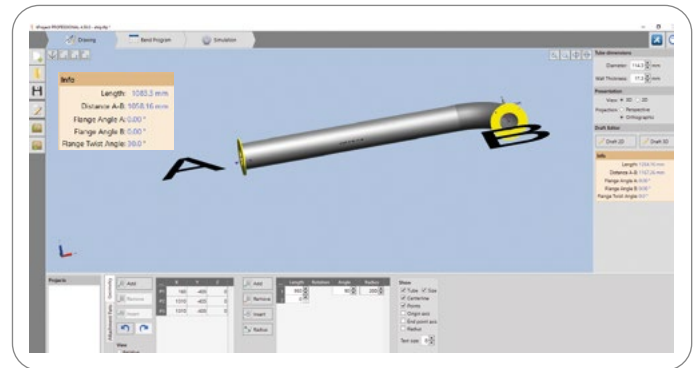
Import – Precise. Controlled. Efficient.

The geometry is imported directly into the **t project BENDING SOFTWARE**, where it is immediately available for further processing.

Relevant parameters such as diameter, wall thickness, radii, and XYZ and LRA data can be reliably checked and verified.

In addition, the **t project BENDING SOFTWARE** allows users to select the machine, tooling, and material, as well as maintain a dedicated material database.

This database provides the basis for the automatic calculation of the required overbend compensation, enabling the software to accurately compensate for material springback.



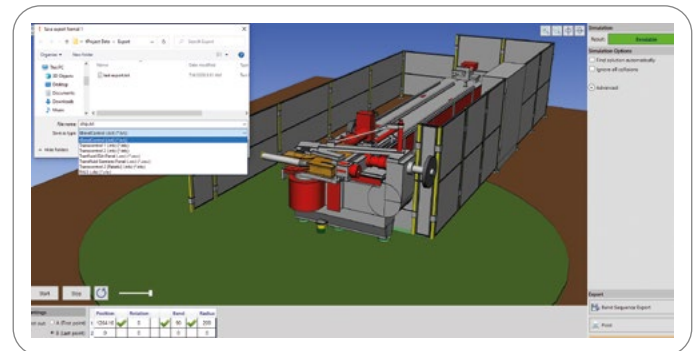
3. Virtual tube bendability testing

Testing – Reliable. Transparent. Application-Oriented.

Before production begins, the integrated collision simulation enables reliable verification of the bending process. Potential interferences can therefore be identified and eliminated at an early stage.

The calculated bending sequence can be exported directly to the bending machine and is immediately available for production.

In addition, the bending log provides clear documentation and can be printed easily whenever required.



4. Save the file – send to the machine – bend the geometry

Bending – Reliable. Stable. Powerful.

The tube is loaded into the bending machine and the bending process is started.

The process runs in a controlled and repeatable manner, ensuring precise and consistent manufacturing results.



PORTFOLIO OF MACHINES

t bend

VARIOLINE

Fully electric mandrel bending machines 360° rotating bending head right/left



PROLINE

Fully electric mandrel bending machines



t form

FLARELINE

Rollforming machines



MULTILINE

Rollforming machines



BOOSTLINE

Axial forming machines



t work

COMPACTLINE

Compact mandrel bending machines



MOBILELINE

Mobile bending machine



MOBILELINE EQUIPMENT

Pre-assembly machines



POWERLINE

Mandrel bending machines with servohydraulic motors



ROBOLINE

Robotic bending machines



COMBILINE

Combination machines



ROTOLINE

Chipless orbital cutting machines



t cut

Flaring machines

Tube deburring machines

Electro-hydraulic drive unit

Tube chamfering machines





transfluid
The solution for tubes. 

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